

Dr. Ali Mohammad Al-Shukri's CV

Contact Data

Name:

ALI MOHAMMAD AL-SHUKRI

Home Address

Green Belt, 29TH Street
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Physics Department, KFUPM BOX # 378
Dhahran 31261, Saudi Arabia

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Personal Data

Date of Birth: 19/8/1952 G.
29/11/1371 H.

Marital Status: Married

Place of Birth: Al-Khobar, Saudi Arabia

Number of Children: (4 Children)
Three daughters and one son.

Employment History

Present Employer

Present Employer (Department Organization): KFUPM

Title: Assistant Professor

Occupation: University Instructor, Physics Dept. KFUPM

From: Safar 1412 H. (August, 1991) **To:** present

Previous Employer

Previous Employer: KFUPM

Title: Chairman

Occupation: Chairman, Physics Department, KFUPM

Dates of Employment: From: Shaaban 1423 H (Sep. 2002) **To:** Ramadhan 1429 H (Sep. 2008)

Title: Graduate Assistant

Occupation: Lab Instructor

Dates of Employment: From: Shaaban 1397 H (August 1977) **To:** Ramadhan 1399 H (August 1979)

Educational Data

Academic History: (Highest Degree First)					
Degree	Year	Name of Institution	Major Field of Study	Miner Field of Study	Country
PH.D.	1991	Georgia State University	Astrophysics	Speckle Interferometry	U.S.A
M.SC.	1983	University Of South Carolina	Physics	Condensed Matter	U.S.A
B.SC.	1977	KFUPM	Physics		Saudi Arabia

Vocational/ Technical Training:				
Name of Certificate	Year	Name of Institution	Study Area	Country
Effective College Teaching	1993	KFUPM	Effective College Teaching in a Non-native English-Speaking Environment	Saudi Arabia
Computers in Teaching Science	1997	Al-Ain University	Applying Computer Technology in Teaching Physics	United Arab Emirates
Design of Optical Thin Films	2000	SPIE Short courses, San Diego, USA	Practical Design and Production of Optical Thin Films, by <i>Ronald Willey</i>	USA
Striving for Excellence in University Teaching and Learning	2000	KFUPM	Striving for Excellence in University Teaching and Learning	Saudi Arabia
Using Web CD in Developing Online Courses	2001	KFUPM	Introduction to and Using Web- CT in Developing Online Courses	Saudi Arabia
Developing Skills of Academic Leaders in Business Consultation	2003	KFUPM	Short Course on "How to Conduct Business Consulting?"	Saudi Arabia
Groups & Student Team to Promote Learning	2004	KFUPM	Work shop on Using Groups & Student Team to Promote Learning	Saudi Arabia
Developing the Roles of Department Chairmen as Academic Leaders	2005	KFUPM	Workshop entitled " Developing the Roles of Department Chairmen as Academic Leaders"	Saudi Arabia
Role of Chairmen to hire and retain distinguished faculty	2007	KFUPM	A one day workshop on " Role of Chairmen to hire and retain distinguished faculty"	Saudi Arabia

Contribution and Participation in Other Programs			
Program	Year(s)	Name of Institution	Function
Physics for High School Lab Technician	2000	Saad Private School, Al-Khobar, Saudi Arabia	Instructor/ Lecturer
Physics for High School Male and Female Teachers	2001, 2002, 2003	KFUPM, Dhahran, Saudi Arabia	Instructor/ Lecturer
Special Summer Program for Gifted Students	2001, 2002, 2003	KFUPM, Dhahran, Saudi Arabia	Vice President, Project Instructor and Coordinator

Current Specialization: Optical Properties of Thin Films, Heat Mirrors, Gas Sensors, Crescent Sighting and analysis.

Special Skills/ Interests:

- a) Application of Speckle Interferometry to binary and multiple stars.
- b) Astrometrical detection of planetary systems around double stars.
- c) Astrometrical detection of Sub-stellar objects and Brown Dwarfs.
- d) Prayer times
- e) Crescent Sighting and Analysis

- f) The Qibla (prayer) Direction.
- g) Mossbauer Effect.
- h) Electrical Properties of Glasses.
- i) Optical Properties of Thin Films, Heat Mirrors, Smart Windows, and Gas Sensors.
- j) Radon Gas Detection using Nuclear Track Detectors

Professional and Organization Membership: Former Member of the American Physical Society; Former Member of the Astronomical Society of Pacific; Former Member of SPIE, Member of the Planetary Society; Member of the Saudi Physical Society.

Published Papers:

1. **Al-Shukri, A.M.** and Cathey, L., "Mössbauer resonance measurements of some ceramic sherds", APS southeastern section 5th Meeting, USC, Columbia, SC, 3-5 Nov., BC9, 17, 1983.
2. **Al-Shukri, A.M.**, McAlister, H.A., Hartkopf, W.H., Hutter, D.J., and Frans, O.G., "ICCD speckle observations of binary stars", *Astron. J.*, VIII, No. 1, pp. 393-407, 1996.
3. **Al-Shukri, A. M.**, Khattak, G. D., and Salim, M. A., "Electrical conductivity of molybdenum phosphate ($\text{MoO}_3:\text{P}_2\text{O}_5$) glasses", *J. Mat. Sci.*, 35, 123-126, 2000.
4. Khawaja, E.E., Durrani, S.M.A, and **Al-Shukri, A.M.**, "Determination of the optical constants of thin metal films", *Thin Solid Films*, 358, 166-171, 2000.
5. Durrani, S.M.A, Khawaja, E.E., and **Al-Shukri, A.M.**, "Density of Thin Films of Cadmium Sulphide by Nuclear Backscattering", *AJSE*, 25, 2A, 89-94, 2000.
6. Durrani, S.M.A, Khawaja, E.E., **Al-Shukri, A.M.**, and Iob, A., "The optical constants of Zinc Sulfide films Determined from Transmittance Measurements", *Thin Solid Films*, 379, 199, 2000.
7. Durrani, S.M.A, Khawaja, E.E., Al-Kuhaili, M. F., and **Al-Shukri, A.M.**, "Effect of preparation conditions on the optical and thermochromic properties of thin films of tungsten oxide", *Solar Energy Materials & Solar Cells*, 71, 313-325, 2002. ([Abstract](#)) - DOI: 10.1016/S0927-0248(01)00090-3
8. Al-Jarallah, M.I., Fazal-ur-Rehman, Abu-Jarad, F., **Al-Shukri, A.M.**, " Indoor Radon Measurements in Dwellings of Four Saudi Arabian Cities", *Radiat. Meas.*, 36, 445-445, 2003.
9. Abu-Jarad, F., Fazal-ur-Rehman, Al-Jarallah, M.I., **Al-Shukri, A.M.**, " Indoor Radon Survey in Dwellings of Nine Cities in the Eastern and Western Provinces of Saudi Arabian Cities", *Radiat. Prot. Dosim.* 106(3), 227-232, 2003.
10. El Ghandoor, H, Nasser, Ibraheem, Abdel-Hady, Afaf, and **Al-Shukri, A.**, "A comparative study of spliced optical fibers", *Opt Laser Eng*, 41, 277-267, 2004.
11. Durrani, S.M.A, Khawaja, E.E., **Al-Shukri, A.M.**, and Al-Kuhaili, M. F., "Dielectric/Ag/dielectric coated energy-efficient glass windows for warm climates", *Energy and Buildings*, 36, 891-898, 2004. ([Abstract](#)) - DOI: 10.1016/j.enbuild.2004.02.003
12. Khattak, G.D, Mekki, A., **Al-Shukri, A.M.**, " X-ray Photoelectron Spectroscopy Study of Copper Tellurite Glasses", *Physica Scripta.* 70, 187-192, 2004.
13. **A.M. Al-Shukri** "Thin film coated energy-efficient glass windows for warm climates" , *Desalination* 209 (2007) 290–297.
14. M. F. Al-Kuhaili, S. M. A. Durrani, I. A. Bakhtiari, and **A. M. Al-Shukri**, "*Optical constants and thermocoloration of pulse laser deposited molybdenum oxide thin films.*" **Optics Communications** Vol. 283 (2010), 2857-2862 ([Abstract](#)) - DOI: 10.1016/j.optcom.2010.03.059

Papers and Posters Presented At Conferences:

1. **Al-Shukri, A.M.**, El-Ghandoor, H., Al-Jarallah, M. I., H., Abu-Jarad, F., Abdel-Hadi, A., and Farhat, M., "Interferometric Investigation of the Effect of High γ -Doses on the Refractive Index of Nuclear Track Detectors", 1st Saudi Science Conference at KFUPM, Phys 53 (poster), April 9-11, 2001.
2. Khawaja, E.E., **Durrani, S.M.A**, Al-kuhaili, M.F., and **Al-Shukri, A.M.**, "Optically switchable thin solid films", 1st Saudi Science Conference at KFUPM, Phys 27, April 9-11, 2001.

3.	Durrani, S.M.A, Al-kuhaili, M.F., Al-Shukri, A.M. , and Khawaja, E.E., “Thin Film Sensors”, 1 st Saudi Science Conference at KFUPM, Phys 28 (poster), April 9-11, 2001.
4.	Al-Shukri, A.M. , Durrani, S.M.A, Al-Kuhaili, M. F., and Khawaja, E.E, “Some Energy-Saving Applications of Thin Solid Films”, 1 st Saudi Science Conference at KFUPM, Phys 29 (poster), April 9-11, 2001.
5.	El Ghandoor, H, Nasser, Ibraheem, Abd-El Rahman, M., and Al-Shukri, A.M. , “Transverse interference pattern for the examination of spliced optical fibers”, Wave-Optical Systems Engineering Conferences, Proceedings of SPIE Vol. 4436, pp. 205-212, 2001. SPIE 46 th Annual Meeting, conference # 4436-29, San Diego, Ca, USA, 29 July - August 3, 2001.
6.	El Ghandoor, H, Behery, G.M, Nasser, Ibraheem, Al-Shukri, A.M. , and Abd-El Rahman, M., “Transverse interference pattern for the examination of spliced optical fibers (In Transmission and at Reflection)”, ATTCE 2001 Proceedings Volume 4, pp. 159-165, 2001. Barcelona, Spain Oct. 1-3, 2001
7.	Abu-Jarad, F., Al-Jarallah, M.I., Fazal-ur-Rehman, Al-Shukri, A.M. , "First Phase of Indoor Radon Survey in Dwellings of Seven Cities of Saudi Arabia", 21 st International Conference on Nuclear Tracks in Solids, New Delhi, India, October 21, 2002.
8.	M.I. Al-Jarallah, Fazal-ur-Rehman, F. Abu-Jarad, A.M. Al-Shukri , " Indoor radon survey in dwellings of seven Cities of Saudi Arabian", 21 st International Conference on Nuclear Trucks in Solids, India, Oct. 21-25, 2002.
9.	G.D. Khattak, A. Mekki, M.A. Al-Shukri , " XPS Studies of Copper Tellurite Glasses", First International Meeting on Applied Physics (APHYS 2003), Badajoz (Spain), 14 – 18 Oct, 2003.
10.	M.I. Al-Jarallah, F. Abu-Jarad, Fazal-ur-Rehman, and A. Al-Shukri , " Indoor Radon Measurements in Dwellings of Nine Cities of Saudi Arabian", 2 nd Saudi Science Conference in KAU, Jeddah (2003). Refereed and Accepted for Publication in KAU
11.	M.I. Al-Jarallah, F. Abu-Jarad, Fazal-ur-Rehman, and A. M. Al-Shukri , " Concentration of Indoor Radon gas in Dwellings of Nine Cities of Saudi Arabian", 1 st Scientific Meeting for Academic Development Committee on "Enviromental Pollution" in Scientific Departments, College of Education, Girls Colleges, Ministry of Education, Riyadh (2005).
12.	Ali Mohammad Al-Shukri , " Role of Short courses in Developing Scientific Skills of High School Teachers: Experience of Physics Department at KFUPM", Workshop on Quality Assurance in Physics Department in Saudi Universities. Organizers: Physics Department, College of Applied Sciences, UQU and Saudi Physical Society. Makkah, Saudi Arabia. 1-2 October 2005.
13.	Al-Shukri, A.M. , “Influence of Schottky Contacts on the Sensitivity of Electron Beam Evaporated SnO ₂ Gas Sensors”, Physics & Astronomy: 229, 3 rd Saudi Science Conference: New Horizons in Science and Their Applications, KSU, in Riyadh, Phys 27, March 10-13, 2007.